Tropical Cyclone *Quick Reference Guide* 2012

Fleet Weather Center - Norfolk, 9141 Third Ave, Norfolk VA 23511-2394
Operations Watchfloor: 757-444-7750 (DSN 564-7750)

NIPR email: <u>fwc-norfolk.cdo@navy.mil</u> SIPR email <u>fwc-norfolk.cdo@navy.smil.mil</u>

(Public) http://www.usno.navy.mil/NOOC/nmfc-n (PKI) https://nepoc.oceanography.navy.mil/portal/web/fwcn (SIPR) http://nepoc.oceanography.navy.smil.mil/portal/web/fwcn



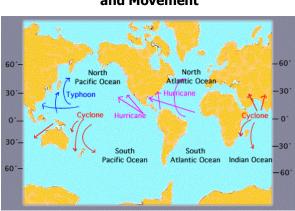
Atlantic Tropical Cyclone Season: 01 June - 30 November

East Pacific Tropical Cyclone Season: 15 May - 30 November

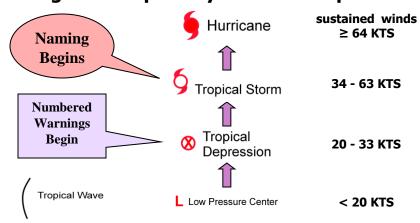
2012 Atlantic Tropical Cyclone Names

Kirk Alberto Leslie **Bervl** Chris Michael **Debby** Nadine Ernesto Oscar **Florence Patty** Gordon Rafael Helene Sandy **Tony** Isaac Valerie **Jovce** William

Tropical Cyclones: Development Areas and Movement



Stages of Tropical Cyclone Development



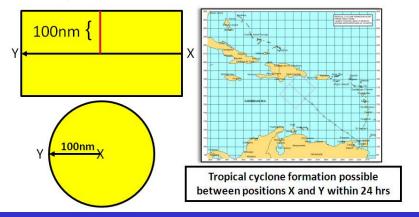
Saffir-Simpson Scale - Hurricane Destruction Potential

Category	Sustained Wind Speed (knots) (mph)		Damage
1	64 - 82	74 - 95	Minimal Moderate Extensive Extreme Catastrophic
2	83 - 95	96 - 110	
3	96 - 113	111 - 130	
4	114 - 135	131 - 155	
5	> 135	> 155	

NOTE: Categories 3, 4, & 5 are considered **MAJOR** hurricanes

Tropical Cyclone Formation Alert (TCFA)

TCFAs provide early notification of likely TC development to the Fleet and help minimize the number of OTSR Advisories and Diverts



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Tropical Cyclone Conditions of Readiness (TC-CORs)

(time until the forecast onset of destructive winds*)

COR V	96 hours
COR IV	72 hours
COR III	48 hours
COR II	24 hours
COR I	12 hours

^{*} Destructive winds are defined as sustained winds \geq 50 KTS

Fleet Sortie Conditions

Charlie - Prepare to sortie within 48 hours

Bravo - Expected sortie within 24 hours

Alpha - Commence sortie to sea

Aircraft Evacuation Status Reports

(required at the following times)

72 hours

48 hours

24 hours

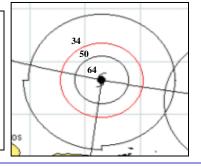
12 hours

Environmental Requirements for Tropical Cyclone Development

- Sea Surface Temperature > 26 C (78 F) with sufficient depth (approx 200ft) of warm water
- **Pre-existing disturbance** to trigger thunderstorm activity (frontal boundary, easterly wave, distal low pressure, etc...)
- **Divergence** at the Upper Levels (above the 400 mb level or about 24,000ft)
- **Coriolis Force** (Ample Planetary Vorticity) will generally be sufficient at latitudes poleward of 8 degrees North/South
- Weak (< 20kts) vertical wind shear between the surface and upper troposphere
- Relatively **moist layers at the mid-levels** (about the 700mb level / 10,000 ft)
- System embedded in a potentially **unstable** air mass

KEY TO TROPICAL CYCLONE WARNING GRAPHICS

The **black** and **red** lines around a projected tropical cyclone track indicate the **34-knot**, **50-knot**, **and 64-knot wind radii** associated with the storm at a given point. The outermost black line indicates the **34-knot** radius; the red line indicates the **50-knot** radius; and the inner black line shows the **64-knot** radius. Not all tropical cyclones will have peak central winds that reach the **50-knot** or **64-knot** threshold; as a result, weaker storms may not have a **50-knot** or **64-knot** wind radius. The size of the storm's forecast wind field will be indicated by the radius of each quadrant in the associated tropical cyclone warning message.



NFAAS | NAVY FAMILY ACCOUNTABILITY and ASSESSMENT SYSTEM

NFAAS standardizes a method for the Navy to account, assess, manage, and monitor the recovery process for personnel and their families affected and/or scattered by a wide-spread catastrophic event. The NFAAS provides valuable information to all levels of the Navy chain of command, allowing commanders to make strategic decisions which facilitate a return to stability.

NFAAS allows Navy Personnel to do the following:

- Update Contact/Location information
- Complete Needs Assessment
- View Reference Information

NFAAS Website --- https://www.navyfamily.navy.mil